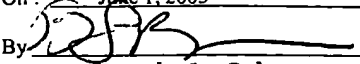




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Brendy L. Belony

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Inventor :Seiji MIYOSHI, et al.  
Filed :May 25, 1999  
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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

SIR:

In order to comply with discretionary regulations 37 CFR §§ 1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and copies of non-US references (if any) listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

Also attached are seven European Search Reports including: European Search Report dated March 14, 2005 for European Application No.: 04027867.3, European Search Report dated March 14, 2005 for European Application No.: 04027868.1, European Search Report dated March 14, 2005 for European Application No.: 04027869.9, European Search Report dated March 14, 2005 for European Application No.: 04027870.7, European Search Report dated March 9, 2005 for European Application No.: 04027871.5, European Search Report dated March

9, 2005 for European Application No.: 04027872.3 and European Search Report dated March 9, 2005 for European Application No.: 04027873.1.

European Search Report dated March 14, 2005 for European Application No.: 04027867.3 cites five references, three of which, namely US 5,680,394, EP 0 966 134, and EP 1 018 831, were previously submitted in an IDS filed on January 6, 2003.

European Search Report dated March 14, 2005 for European Application No.: 04027868.1 cites one reference, which is listed on Form PTO-1449 and is enclosed with the present IDS.

European Search Report dated March 14, 2005 for European Application No.: 04027869.9 cites three references, two of which, namely EP 0 966 134 and EP 1 018 831, were previously submitted in an IDS filed on January 6, 2003.

European Search Report dated March 14, 2005 for European Application No.: 04027870.7 cites two references, one of which namely, Okada H. Et al., was previously submitted in an IDS filed on November 20, 2003.

European Search Report dated March 9, 2005 for European Application No.: 04027871.5 cites 4 references, two of which, namely Okada H. et al. and EP 0 966 134, were previously submitted in an IDS filed on November 20, 2003 and January 6, 2003.

European Search Report dated March 9, 2005 for European Application No.: 04027872.3 cites 4 references, two of which, namely Okada H. et al. and EP 0 966 134, were previously submitted in an IDS filed on November 20, 2003 and January 6, 2003.

European Search Report dated March 9, 2005 for European Application No.: 04027873.1. cites one reference, which was previously submitted in an IDS filed on November 20, 2003.

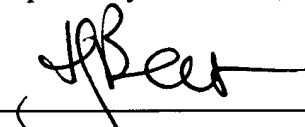
The present Information Disclosure Statement is being submitted in compliance with 37 CFR § 1.56 as an Examiner might consider any cited document important in deciding whether to

allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR § 1.104 (a), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

As this statement is being filed prior to issuance of a first Office Action, no fee is due. However, any fee determined to be due with this statement may be charged to Deposit Account 50-1290.

Early and favorable consideration is respectfully solicited.

Respectfully submitted,



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Thomas J. Bean  
Reg. No. 44,528

Customer Number: 026304  
Docket No.: FUJA 16.140

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U.S. Department of Commerce  
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STATEMENT BY APPLICANT**

Sheet 1 of 1

Application No. : 09/318,445

Filing Date : May 25, 1999

First Named Inventor : S. MIYOSHI

Group Art Unit :

Examiner Name :

Attorney Docket No. : FUJA 16.140

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document	Kind Code if known <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		5,222,077		KRISHNAN	06-22-1993	

**FOREIGN DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Office <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		0 828 363	EP	TEXAS INSTRUMENTS INCORPORATED	03-11-1998	
		1 098 463	EP	FUJITSU LTD.	05-09-2001	
		0 969 639	EP	FUJITSU LTD.	01-05-2000	

**Other Prior Art-Non Patent Literature Documents**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check her if English language translation attached
		European Search Report dated March 14, 2005 for European Application No.: 04027867.3	
		European Search Report dated March 14, 2005 for European Application No.: 04027868.1	
		European Search Report dated March 14, 2005 for European Application No.: 04027869.9	
		European Search Report dated March 14, 2005 for European Application No.: 04027870.7	
		European Search Report dated March 9, 2005 for European Application No.: 04027871.5	
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		SEIICH YAMANO. The Range of HDSLs and ADSLs in NTT's Local Networks. NTT Transmission Systems Laboratories. IEEE 1994 pages 444	
		DAVID W. LIN. A Tutorial on Digital Subscriber Line Transceiver for ISDN. IEEE International Symposium on Circuits and Systems. pages 839	
		ZIMMERMAN G A ED et al. Achievable rates vs. operating characteristics of local loop transmission: HDSL, HDSL2, ADSL and VDSL. Signals, Systems, & Computers, November 2, 1997. pages 573-577, XP010280818.	
		AL JACKSON. ADSL for High-Speed Broadband Data Service. Aerospace Conference, 1998 IEEE, pages 451-465, XP010286910	
Examiner Signature		Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take .2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.